Pigment Dispersion Syndrome

A 25-year-old male football player with myopia of −7.50 diopters (D) both eyes (OU), presented for refractive surgery workup. He had Snellen visual acuity of 6/6 and intraocular pressure (IOP) of 14 mmHg OU. Anterior segment examination revealed brown pigmentation on endothelium arranged vertically over central cornea in both eyes (Krukenberg spindle, Fig A). Gonioscopy showed open angles with hyperpigmented trabecular meshwork (Fig B, arrow) and brown pigmented line anterior to Schwalbe’s line (Fig B, arrowhead) suggestive of Sampolesi line. Both optic discs were healthy. Ultrasound biomicroscopy revealed a concave iris configuration which reversed after a successful laser iridotomy (Fig C and D). (Magnified version of Fig A-D is available online at www.ophthalmologyglaucoma.org).

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